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Portable Multi-Channel Recorder Model DAS240-BAT



The DAS240-BAT measures parameters commonly found in process applications including voltage, temperature, current, resistance, frequency and pulse. It includes 20 universal analog channels with convenient screw input terminals that can be expanded up to 200 channels. This recorder was developed by B&K Precision's subsidiary Sefram in France, which specializes in the design and manufacture of recorders, field strength meters and other test and measurement instruments.

Measurement results can be viewed graphically and numerically on a 10 inch color touchscreen and saved to internal memory or an external USB memory stick. Icon-driven menus make the instrument easy to navigate. The free DasLab Windows PC software allows users to remotely control and configure the recorder, transfer logging results and configuration files, and view live data in graphical or numerical format on the PC.

Main applications

- Temperature monitoring with thermocouples and platinum resistance temperature sensors
- Voltage measurements down to ± 0.5 mV range
- 4-20 mA current loop measurements
- Frequency, pulse totalization and pulse rotation measurements, which can be expressed in RPM (rotations per minute)



Expandable 20-channel analog modules

Features and benefits:

- Compact and portable form factor suitable for remote and field use
- Outstanding battery life of up to 15 hours
- Wide 10" touchscreen TFT display
- 20 universal analog input channels, expandable to 200 channels
- Versatile temperature measurements supporting 9 types of thermocouples and 2 or 3-wire PtI00 / PtI000 temperature sensors
- Measure voltage to ±100 V, resistance to 10 kΩ and current (with optional shunt input-terminal block)
- I6 bit vertical resolution
- Recording interval (sampling rate) up to I ms
- I2 logic input/output channels
- 4 timing logic input channels for pulse count, frequency and PWM measurements
- 4 alarm outputs
- 32 GB internal hard drive
- 2 USB Host ports and I LAN interface
- Free DasLab operating software
- Virtual Networking Computing (VNC) capability for replicating the instrument's front panel interface on a PC

Front panel



Top input and connection panel



Flexible operation



Large display with icon-driven menus for easy setup and operation.

7				1		۲	•		11:26:00	Home	
<									Reset Min/Max		>
CH		Min	Max	CH		Min	Max	CH	Value	Min	Max
A1	^{Channel A1} = 0.0024 v	-0.0058	0.0050		Channel A9 =-0.0017	-5.0000	0.0038		Channel A17 = -0.0005	v -5.0000	0.0040
A2	Channel A2 = 0.0024	-5.0000	0.0040		Channel A10 =-0.0029	-5.0000	0.0035		Channel A18 = 0.0008	v -5.0000	0.0040
A3	Channel A3 = 0.0017	-5.0000	0.0038		Channel A11 = -0.0040	-5.0000	0.0046		Channel A19 = Off		
A4	Channel A4 = 0.0015	-5.0000	0.0035		Channel A12 =-0.0021	-5.0000	0.0035				•
AS	Channel AS = 0.0005	-5.0000	0.0035		Channel A13 =-0.0017	-5.0000	0.0040		Funct A1 = 0.0008	A -0.0058	0.0050
A6	Channel A6 =-0.0003 v	-5.0000	0.0040		Channel A14 =-0.0024	-5.0000	0.0040		Funct A2 = 0.0008	A -0.0058	0.0050
A7	Channel A7 =-0.0014 v	-5.0000	0.0047		Channel A15 =-0.0014	-5.0000	0.0038				
A8	Channel A8 =-0.0024	-5.0000	0.0038		Channel A16 =-0.0014	-5.0000	0.0040				

Numerical display of measured values



Measurement display with zoom and cursors



XY Mode for plotting one varying voltage versus another



Comprehensive triggering capabilities: Configure triggers on analog and logic channels. Select from multiple combinations of thresholds, channels and conditions.



Channel setup displays all parameters on a single screen



Math calculations between channels

\SD card\	File_Record_0007.rec	
► FolderREC	37.28 kB - 28/03/2017 13:40:08	
► FolderBMP	File_Record_0006.rec	
	37.28 kB - 28/03/2017 13:40:04	- ÷÷
	File_Record_0005.rec	
	37.28 kB - 28/03/2017 13:40:00	
	File_Record_0004.rec	
	37.28 kB - 28/03/2017 13:39:56	
	File_Record_0003.rec	
	37.28 kB - 28/03/2017 13:39:38	
	File_Record_0002.rec	
	37.28 kB - 28/03/2017 13:39:32	
	File_Record_0001.rec	
	37.28 kB - 28/03/2017 08:06:10	
	30.00 GB free space on 30.00 GB	

Internal File management

The tools you need

Expandable up to 200 analog channels



The DAS240-BAT provides a flexible and scalable analog channel concept. Each unit is supplied with one 20-channel analog module and 20 screw input terminal blocks, enabling voltage and temperature measurements with thermocouples or Pt100/Pt1000 sensors. By stacking and daisy-chaining additional modules, the total number of channels can be incremented by 20 to a maximum of 200 channels (10 modules).



Adding an optional 50 Ω (0.01%) shunt input terminal block to any 20 channel module provides current measurement capabilities, ideal for 4-20 mA measuring and monitoring applications.

Virtual Network Computing (VNC) capability

The recorder's built-in VNC capability, based on the Remote Frame Buffer protocol (RFB), provides a graphical desktop sharing system to remotely control the instrument from another computer. VNC is platform independent and provides a means to control all functions of the instrument through a graphical interface replicating the instrument's front panel, using a mouse and keyboard.

DasLab Software



DasLab is a license-free Windows compatible software that can be downloaded from www.bkprecision.com. The software controls the recorder through the LAN interface and provides the following features:

- Channel and trigger configuration
- Display live measurement results in graphical or numerical format
- File management, file upload and download of data recordings, screen captures and configuration files

		Last Methoday	-
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DasLab file management



Specifications

	Analog Channels	;		
Number of Analog Input C				
20 channels standard, e	expandable to 200 with op	tional 20-channel modules		
DC Voltage				
Ranges		± (0.5, 1, 2.5, 5, 10, 25, 50, 100) mV		
	± (0.5, 1, 2.5, 5, 10, 25, 50, 100) V			
Maximum input Voltage	100 V DC 0.1% of the full scale ±10 μV			
Accuracy				
Temperature with Thermo	-			
]	-210 °C to 1200 °C		
	К	-250 °C to 1370 °C		
	T	-200 °C to 400 °C		
Sensors Range by	S	-50 °C to 1760 °C		
Type (Cold junction compensation: ± 0.5 °C)	В	200 °C to 1820 °C		
	E	-250 °C to 1000 °C		
	N	-250 °C to 1300 °C		
	C	0 °C to 2320 °C		
	L	-200 °C to 900 °C		
Temperature with Pt100 a	nd Pt1000			
Current	I mA (Pt100), 100 µA (Pt1000)			
Range	-200 °C to 850 °C			
Measurements		and 3 wires		
Accuracy (at 20 °C)	0.3 °C ±0.1% of reading			
Compensated Resistance	2 wires	30 Ω max.		
1	3 wires	50 Ω max.		
Resistance				
Ranges	I k Ω and IO k Ω			
Accuracy	I Ω (range I k Ω) and IO Ω (range IO k Ω)			
	Logic Channels			
Logic Input/Output	1			
Number of Channels	12			
Maximum Permitted Voltage	24 V Cat I			
Input Impedance	4.7 kΩ			
Sampling Rate	I ms max.			
Timing Input				
Number of Channels	4 (KI to K4)			
Maximum Permitted Voltage	24 V Cat I			
Input impedance	4.7 kΩ			
Sampling Rate	I ms max.			
Pulse Counter	0 to 10000000, accuracy 0.1%			
Frequency Measurement	I Hz to I0 kHz, accuracy 0.1%			
PWM Measurement	100 Hz to 2 kHz, accuracy 0.1%			
Alarm Output	·			
Number of Channels	4 Alarn	ns (A, B, C, D)		
Output Level	0 to 5 V			

General						
Acquisition System						
Resolution	I6 bit					
Acquisition System	Scan, one sample per channel					
	V >50 mV I ms to 20 min					
Sampling Rate	V ≤50 mV, thermocouples and Pt100 / Pt1000	2 ms				
Trigger	Date, delay, threshold, combination of thresholds (and/or), word on logic channels (and, or, slope, level)					
Pre-trigger	Variable from 0 to 100k samples					
Internal Storage						
Internal Flash Drive Size	32	GB				
Maximum File Size	2 (GB				
Environmental						
Operating Temperature	0 °C to 40 °C, 80% I	RH (no condensation)				
Storage Temperature	-20 °C t	o 60 °C				
Auxiliary						
Display	10" TFT touchscreen LCD, backlit, 1024 x 600 dots					
Power Supply	IS V / 4 A max with main adapter (100 / 240 VAC)					
Interfaces	2 x USB host, LAN (10/100 base-T with RJ45 socket)					
Battery	Non removable, Lithium-ion					
Typical Battery Life	I5 hours with standby mode, I0 hours without stand-by mode					
Safety	Cat I 100 V, according to IEC61010-1					
Weight	3.3 lbs (1.5 kg)					
Dimensions (W x H x D)	2.6" x 11.7" x 6.9" (66 x 298 x 176 mm)					
Warranty	Two Years					
Supplied Accessories	Main adapter 100 / 240 V, manual (CD-ROM), I male connector with 25 pins male and cover, I cable (70 cm) for measurement module connection, I measurement module (20 channels) with input terminals, a stylus, a soft wipe, a screwdriver					
Order Information for Optional Accessories						
902401000	20-chann	el module				
902401050	Input terminal blocks 20 pack					
902408000	Rugged carrying case					
902407000	Logic channels patch cord					
902406500	4 to 20 mA / 50 Ω shunt					
902409000	19" rack-1	nount kit				